

L3 ANSWER 140 OF 161 CA COPYRIGHT 2005 ACS on STN
AN 98:94545 CA
ED Entered STN: 12 May 1984
TI Ceramic filters
PA Japan Automobile Research Institute, Inc., Japan
SO Jpn. Kokai Tokkyo Koho, 3 pp.
CODEN: JKXXAF
DT Patent
LA Japanese
IC B28B001-38; B01J035-04; B01J037-02
ICA B01D046-00; B01D053-36
CC 57-2 (Ceramics)
Section cross-reference(s): 59

FAN.CNT 1

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------|---------------|------|----------|-----------------|----------|
| PI | JP 57176109 | A2 | 19821029 | JP 1981-61697 | 19810423 |
| PRAI | JP 1981-61697 | | 19810423 | | |

CLASS

| PATENT NO. | CLASS | PATENT FAMILY CLASSIFICATION CODES |
|-------------|-------|--------------------------------------|
| JP 57176109 | IC | B28B001-38IC B01J035-04IC B01J037-02 |
| | ICA | B01D046-00; B01D053-36 |

AB Organic structural materials having many continuous holes are impregnated with a slurry containing ceramic powder, **water**, an organic binder, and a deflocculant for viscosity adjustment, dried, and fired to give ceramic filters especially useful for exhaust gas purification. Thus, a cylinder having many continuous holes and made from a polyurethane foam was impregnated with a slurry containing cordierite 1500, poly(vinyl alc.) 100, water 2500, and Na silicate 4 parts, dried, and fired to give a filter. When air was passed through the filter at 800 L/min, the pressure loss was 40-50 mm Hg, compared to 80-90 with a slurry containing no Na silicate.

ST **cordierite** ceramic filter; polyurethane foam ceramic filter
prepn; **sodium silicate cordierite** filter

IT Filtering materials

(**cordierite** ceramic, containing Na silicate for low pressure loss, for exhaust gas purification)

IT Ceramic materials and wares

(**cordierite**, containing Na silicate, for filters with low pressure loss, for exhaust gas purification)

IT Exhaust gases

(filters for, from **cordierite** ceramics containing Na silicate for low pressure loss)

IT Urethane polymers, uses and miscellaneous

RL: SPN (Synthetic preparation); PREP (Preparation)

(foams, in **cordierite** ceramic filter preparation with **sodium silicate**, for exhaust gas purification)